



SEQUENCE LISTING

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Barber, Brian

<120> HEAT SHOCK PROTEIN-BASED VACCINES AND
IMMUNOTHERAPIES

<130> 8449-405-999

<140> 10/776,521

<141> 2004-02-12

<150> 60/503,417

<151> 2003-09-16

<150> 60/463,746

<151> 2003-04-18

<150> 60/462,469

<151> 2003-04-11

<150> 60/447,142

<151> 2003-02-13

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tryptophan, leucine or phenylalanine

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Trp residue

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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 143
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 1 5

 <210> 144
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 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 144
 Leu Ser Gln His Thr Asn Gly Trp
 1 5

 <210> 145
 <211> 8
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 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 145
 Asn Arg Leu Leu Leu Thr Gly Trp
 1 5

 <210> 146
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 146
 Tyr Pro Leu Trp Val Ile Gly Trp
 1 5

 <210> 147
 <211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 147
Leu Leu Ile Ile Asp Arg Gly Trp
1 5

<210> 148
<211> 8
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<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 148
Arg Val Ile Ser Leu Gln Gly Trp
1 5

<210> 149
<211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 149
Glu Val Ser Arg Glu Asp Gly Trp
1 5

<210> 150
<211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 150
Ser Ile Leu Arg Ser Thr Gly Trp
1 5

<210> 151
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 151
Pro Gly Leu Val Trp Leu Gly Trp
1 5

<210> 152
<211> 8
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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 152
Val Lys Lys Leu Tyr Ile Gly Trp
1 5

<210> 153
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 153
Asn Asn Arg Leu Leu Asp Gly Trp
1 5

<210> 154
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 154
Ser Lys Gly Arg Trp Gly Gly Trp
1 5

<210> 155
<211> 8
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<213> Artificial Sequence

<220>
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Trp residue

<400> 155
Ile Arg Pro Ser Gly Ile Gly Trp
1 5

<210> 156
 <211> 8
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 Trp residue

 <400> 156
 Ala Ser Leu Cys Pro Thr Gly Trp
 1 5

 <210> 157
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 1 5

 <210> 158
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 <220>
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 Trp residue

 <400> 158
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 1 5

 <210> 159
 <211> 8
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 <220>
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 Trp residue

 <400> 159
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 1 5

 <210> 160
 <211> 8
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<213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 160
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 1 5

<210> 161
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 161
 Asn Leu Leu Arg Arg Ala Gly Trp
 1 5

<210> 162
 <211> 8
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 162
 Ser Gly Ile Ser Ala Trp Gly Trp
 1 5

<210> 163
 <211> 8
 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 163
 Phe Tyr Phe Trp Val Arg Gly Trp
 1 5

<210> 164
 <211> 8
 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 164
Lys Leu Phe Leu Pro Leu Gly Trp
1 5

<210> 165
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 165
Thr Pro Thr Leu Ser Asp Gly Trp
1 5

<210> 166
<211> 8
<212> PRT
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<220>
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Trp residue

<400> 166
Thr His Ser Leu Ile Leu Gly Trp
1 5

<210> 167
<211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 167
Leu Leu Leu Leu Ser Arg Gly Trp
1 5

<210> 168
<211> 8
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<220>
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Trp residue

<400> 168
Leu Leu Arg Val Arg Ser Gly Trp
1 5

<210> 169
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 Trp residue

 <400> 169
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 1 5

 <210> 170
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 <220>
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 Trp residue

 <400> 170
 Arg Met Leu Gln Leu Ala Gly Trp
 1 5

 <210> 171
 <211> 8
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 <220>
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 Trp residue

 <400> 171
 Arg Gly Trp Ala Asn Ser Gly Trp
 1 5

 <210> 172
 <211> 8
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 <220>
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 Trp residue

 <400> 172
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 1 5

 <210> 173
 <211> 8
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<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 173

Ser Ser Ser Trp Asn Ala Gly Trp
1 5

<210> 174

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 174

Leu Gly His Leu Glu Glu Gly Trp
1 5

<210> 175

<211> 8

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 175

Ser Ala Val Thr Asn Thr Gly Trp
1 5

<210> 176

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 176

Leu Arg Arg Ala Ser Leu Trp
1 5

<210> 177

<211> 7

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<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 177
Leu Arg Arg Trp Ser Leu Trp
1 5

<210> 178
<211> 7
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<220>
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Trp residue

<400> 178
Lys Trp Val His Leu Phe Trp
1 5

<210> 179
<211> 7
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<220>
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Trp residue

<400> 179
Asn Arg Leu Leu Leu Thr Trp
1 5

<210> 180
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Trp residue

<400> 180
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1 5

<210> 181
<211> 7
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<220>
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Trp residue

<400> 181
Asn Ala Leu Leu Leu Thr Trp
1 5

<210> 182
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 Trp residue

 <400> 182
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 1 5

 <210> 183
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 Trp residue

 <400> 183
 Asn Leu Leu Arg Leu Thr Trp
 1 5

 <210> 184
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 Trp residue

 <400> 184
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 1 5

 <210> 185
 <211> 7
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 <220>
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 Trp residue

 <400> 185
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 1 5

 <210> 186
 <211> 8
 <212> PRT
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<220>
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 Trp residue

 <400> 186
 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

 <210> 187
 <211> 8
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 <220>
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 Trp residue

 <400> 187
 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

 <210> 188
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 <220>
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 Trp residue

 <400> 188
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

 <210> 189
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
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 Trp residue

 <400> 189
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

 <210> 190
 <211> 6
 <212> PRT
 <213> Artificial Sequence

 <220>
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 Trp residue

<400> 190
Lys Phe Glu Arg Gln Trp
1 5

<210> 191
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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Trp residue

<400> 191
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1 5

<210> 192
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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Trp residue

<400> 192
Arg Gly Tyr Val Tyr Gln Gly Leu Trp
1 5

<210> 193
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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Trp residue

<400> 193
Tyr Thr Leu Val Gln Pro Leu Trp
1 5

<210> 194
<211> 8
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<220>
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Trp residue

<400> 194
Thr Pro Asp Ile Thr Pro Lys Trp
1 5

<210> 195
 <211> 8
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 <220>
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 Trp residue

 <400> 195
 Thr Tyr Pro Asp Leu Arg Tyr Trp
 1 5

 <210> 196
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

 <400> 196
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 1 5

 <210> 197
 <211> 8
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 <220>
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 Trp residue

 <400> 197
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 1 5

 <210> 198
 <211> 8
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 <220>
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 Trp residue

 <400> 198
 Tyr Gln His Ala Val Gln Thr Trp
 1 5

 <210> 199
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<213> Artificial Sequence

<220>

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Trp residue

<400> 199

Phe Pro Phe Ser Ala Ser Thr Trp
1 5

<210> 200

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 200

Ser Ser Phe Pro Pro Leu Asp Trp
1 5

<210> 201

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 201

Met Ala Pro Ser Pro Pro His Trp
1 5

<210> 202

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 202

Ser Ser Phe Pro Asp Leu Leu Trp
1 5

<210> 203

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 203
 His Ser Tyr Asn Arg Leu Pro Trp
 1 5

<210> 204
 <211> 8
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<220>
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 Trp residue

<400> 204
 His Leu Thr His Ser Gln Arg Trp
 1 5

<210> 205
 <211> 8
 <212> PRT
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<220>
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 Trp residue

<400> 205
 Gln Ala Ala Gln Ser Arg Ser Trp
 1 5

<210> 206
 <211> 8
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<220>
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 Trp residue

<400> 206
 Phe Ala Thr His His Ile Gly Trp
 1 5

<210> 207
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<220>
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 Trp residue

<400> 207
 Ser Met Pro Glu Pro Leu Ile Trp
 1 5

<210> 208
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 208
 Ile Pro Arg Tyr His Leu Ile Trp
 1 5

 <210> 209
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 <220>
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 Trp residue

 <400> 209
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 1 5

 <210> 210
 <211> 8
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 <220>
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 Trp residue

 <400> 210
 Lys Ala Pro Val Trp Ala Ser Trp
 1 5

 <210> 211
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 211
 Leu Pro His Trp Leu Leu Ile Trp
 1 5

 <210> 212
 <211> 8
 <212> PRT
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<220>
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Trp residue

<400> 212
Ala Ser Ala Gly Tyr Gln Ile Trp
1 5

<210> 213
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 213
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1 5

<210> 214
<211> 8
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<220>
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Trp residue

<400> 214
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1 5

<210> 215
<211> 8
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<220>
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Trp residue

<400> 215
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1 5

<210> 216
<211> 8
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 216
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 1 5

<210> 217
 <211> 8
 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 217
 Gly Gln Trp Trp Ser Pro Asp Trp
 1 5

<210> 218
 <211> 8
 <212> PRT
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<220>
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 Trp residue

<400> 218
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 1 5

<210> 219
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 <213> Artificial Sequence

<220>
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 Trp residue

<400> 219
 Asn Thr Leu Pro Ser Thr Ile Trp
 1 5

<210> 220
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 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 220
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 1 5

<210> 221
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 <220>
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 Trp residue

 <400> 221
 Tyr Gly Asn Pro Leu Gln Pro Trp
 1 5

 <210> 222
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 222
 Phe His Trp Trp Trp Gln Pro Trp
 1 5

 <210> 223
 <211> 8
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 <220>
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 Trp residue

 <400> 223
 Ile Thr Leu Lys Tyr Pro Leu Trp
 1 5

 <210> 224
 <211> 8
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 <220>
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 Trp residue

 <400> 224
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 1 5

 <210> 225
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<220>
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 Trp residue

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 1 5

 <210> 226
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 Trp residue

 <400> 226
 Phe His Trp Trp Trp Gln Pro Trp
 1 5

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 <220>
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 Trp residue

 <400> 227
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 1 5

 <210> 228
 <211> 8
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 <220>
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 Trp residue

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 Glu Pro Phe Phe Arg Met Gln Trp
 1 5

 <210> 229
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 229

Thr Trp Trp Leu Asn Tyr Arg Trp
1 5

<210> 230
<211> 8
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<220>
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Trp residue

<400> 230
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1 5

<210> 231
<211> 8
<212> PRT
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<220>
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Trp residue

<400> 231
Gln Pro Ser His Leu Arg Trp Trp
1 5

<210> 232
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 232
Ser Pro Ala Ser Pro Val Tyr Trp
1 5

<210> 233
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 233
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 234
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 <212> PRT
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 <220>
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 Trp residue

 <400> 234
 His Pro Ser Asn Gln Ala Ser Trp
 1 5

 <210> 235
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 <212> PRT
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 <220>
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 Trp residue

 <400> 235
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 1 5

 <210> 236
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

 <400> 236
 Gln Leu Trp Ser Ile Tyr Pro Trp
 1 5

 <210> 237
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

 <400> 237
 Ser Trp Pro Phe Phe Asp Leu Trp
 1 5

 <210> 238
 <211> 8
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<220>
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Trp residue

<400> 238
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1 5

<210> 239
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 239
Trp His Trp Gln Met Leu Trp Trp
1 5

<210> 240
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<212> PRT
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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 240
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1 5

<210> 241
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 241
Thr Ser Pro Leu Ser Leu Leu Trp
1 5

<210> 242
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<212> PRT
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<220>
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Trp residue

<400> 242
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1 5

<210> 243
<211> 8
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Trp residue

<400> 243
Arg Pro Leu His Asp Pro Met Trp
1 5

<210> 244
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Trp residue

<400> 244
Trp Pro Ser Thr Thr Leu Phe Trp
1 5

<210> 245
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Trp residue

<400> 245
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1 5

<210> 246
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<220>
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Trp residue

<400> 246
Ser Met Thr Val Leu Arg Pro Trp
1 5

<210> 247
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 <220>
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 Trp residue

 <400> 247
 Gln Ile Gly Ala Pro Ser Trp Trp
 1 5

 <210> 248
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 <220>
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 Trp residue

 <400> 248
 Ala Pro Asp Leu Tyr Val Pro Trp
 1 5

 <210> 249
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 <220>
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 Trp residue

 <400> 249
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 1 5

 <210> 250
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 <220>
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 Trp residue

 <400> 250
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 1 5

 <210> 251
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<220>
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Trp residue

<400> 251
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1 5

<210> 252
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<220>
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Trp residue

<400> 252
Leu Pro Ile His Ala Pro His Trp
1 5

<210> 253
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 253
Asp Leu Asn Ala Tyr Thr His Trp
1 5

<210> 254
<211> 8
<212> PRT
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Trp residue

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1 5

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Trp residue

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1 5

<210> 256
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Trp residue

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Tyr Pro His Pro Ser Arg Ser Trp
1 5

<210> 257
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Trp residue

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1 5

<210> 258
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Trp residue

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Trp residue

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 Trp residue

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 <210> 261
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 Trp residue

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 <210> 262
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 Trp residue

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 Trp residue

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<210> 265
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 Trp residue

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<210> 266
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 Trp residue

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 Trp residue

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 Trp residue

<400> 268
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 1 5

<210> 269
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 Trp residue

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 1 5

<210> 270
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 Trp residue

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<210> 271
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 Trp residue

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<220>
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 Trp residue

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 1 5

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 Trp residue

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 Trp residue

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 Trp residue

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 Trp residue

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 1 5

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 Trp residue

 <400> 279
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 Trp residue

 <400> 280
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 Trp residue

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1 5

<210> 282
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Trp residue

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<210> 284
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Trp residue

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<220>
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Trp residue

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1 5

<210> 286

<211> 8
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 Trp residue

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 1 5

 <210> 287
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 Trp residue

 <400> 287
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 1 5

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 <210> 289
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 Trp residue

 <400> 289
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 <210> 290
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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 290

Lys Leu Pro Thr Val Leu Arg Trp
1 5

<210> 291

<211> 8

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Trp residue

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Cys Arg Phe His Gly Asn Arg Trp
1 5

<210> 292

<211> 8

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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 292

Tyr Thr Arg Asp Phe Glu Ala Trp
1 5

<210> 293

<211> 8

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 293

Ser Ser Ala Ala Gly Pro Arg Trp
1 5

<210> 294

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 294

Ser Leu Ile Gln Tyr Ser Arg Trp

1 5

<210> 295
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<220>
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 Trp residue

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 <223> Xaa = any amino acid

<400> 295
 Asp Ala Leu Met Trp Pro Xaa Trp
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<210> 296
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<221> VARIANT
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 <223> Xaa = any amino acid

<400> 296
 Ser Ser Xaa Ser Leu Tyr Ile Trp
 1 5

<210> 297
 <211> 8
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 Trp residue

<400> 297
 Phe Asn Thr Ser Thr Arg Thr Trp
 1 5

<210> 298
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 Trp residue

<400> 298

Thr Val Gln His Val Ala Phe Trp
1 5

<210> 299

<211> 8

<212> PRT

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Trp residue

<400> 299

Asp Tyr Ser Phe Pro Pro Leu Trp
1 5

<210> 300

<211> 8

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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 300

Val Gly Ser Met Glu Ser Leu Trp
1 5

<210> 301

<211> 8

<212> PRT

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<223> Heat shock protein binding domain with a terminal
Trp residue

<221> VARIANT

<222> 2, 6

<223> Xaa = any amino acid

<400> 301

Phe Xaa Pro Met Ile Xaa Ser Trp
1 5

<210> 302

<211> 8

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Trp residue

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<210> 303
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<210> 304
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 Trp residue

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 Lys Pro Pro Leu Phe Gln Ile Trp
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 Trp residue

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 1 5

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 Trp residue

<400> 311
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<210> 312
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 Trp residue

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<210> 313
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 Trp residue

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 1 5

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<210> 315
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<220>
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 1 5

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Trp residue

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<210> 333

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Trp residue

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Thr Leu Tyr Val Ser Gly Asn Trp
1 5

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 Trp residue

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 <210> 348
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Trp residue

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Ala Pro Leu Ala Leu His Ala Trp
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Trp residue

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Thr Ala His Asp Leu Thr Val Trp
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Trp residue

<400> 352

Asn Met Thr Asn Met Leu Thr Trp
1 5

<210> 353

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Trp residue

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Gly Ser Gly Leu Ser Gln Asp Trp
1 5

<210> 354

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Trp residue

<400> 354

Thr Pro Ile Lys Thr Ile Tyr Trp
1 5

<210> 355

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Trp residue

<400> 355

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1 5

<210> 356

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Trp residue

<400> 356

His Gly Gln Ala Trp Gln Phe Trp
1 5

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<220>

<223> Heat shock protein binding domain

<400> 357

Ser Ile Ile Asn Phe Glu Lys Leu
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<210> 358

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain

<400> 358

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1 5

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 1 5

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<210> 363
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1 5

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Tyr Met Asp Gly Thr Met Ser Gln Val
1 5

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<220>
<223> Heat shock protein binding domain

<400> 365
Thr Leu Gly Ile Val Cys Pro Ile
1 5

<210> 366
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 366
Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
1 5 10

<210> 367
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 367
Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu
1 5 10 15
Thr Gly Trp

<210> 368
<211> 19

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 368
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly His Trp Asp Phe Ala
 1 5 10 15
 Trp Pro Trp

<210> 369
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

 <400> 369
 Ala Leu Phe Asp Ile Glu Ser Lys Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

<210> 370
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 370
 Arg Gly Tyr Val Tyr Gln Gly Leu
 1 5

<210> 371
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 371
 Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

<210> 372
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

 <400> 372
 Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 373
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 373
 Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

 <210> 374
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 374
 His Trp Asp Phe Ala Trp Pro Trp Gly Ser Gly Tyr Met Asp Gly Thr
 1 5 10 15
 Met Ser Gln Val
 20

 <210> 375
 <211> 23
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 375
 Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly Gly Ser Gly Asn
 1 5 10 15
 Leu Leu Arg Leu Thr Gly Trp
 20

 <210> 376
 <211> 19
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Hybrid antigen

<400> 376

Thr	Leu	Gly	Ile	Val	Cys	Pro	Ile	Gly	Ser	Gly	His	Trp	Asp	Phe	Ala
1				5					10					15	
Trp	Pro	Trp													

<210> 377

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 377

Thr	Leu	Gly	Ile	Val	Cys	Pro	Ile	Gly	Ser	Gly	Gly	Asn	Leu	Leu	Arg
1				5					10					15	
Leu	Thr	Gly	Trp												
			20												

<210> 378

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 378

Tyr	Met	Leu	Asp	Leu	Gln	Pro	Glu	Thr	Thr	Gly	Ser	Gly	His	Trp	Asp
1				5					10					15	
Phe	Ala	Trp	Pro	Trp											
			20												

<210> 379

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 379

His	Trp	Asp	Phe	Ala	Trp	Pro	Trp	Gly	Ser	Gly	Ser	Ile	Ile	Asn	Phe
1				5					10					15	
Glu	Lys	Leu													

<210> 380

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 380
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu
 1 5 10 15
 Thr Gly Trp

<210> 381
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 381
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Phe Tyr Gln Leu Ala
 1 5 10 15
 Leu Thr Trp

<210> 382
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 382
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Arg Lys Leu Phe Phe
 1 5 10 15
 Asn Leu Arg Trp
 20

<210> 383
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 383
 Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1 5 10 15
 Glu Lys Leu

<210> 384
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 384
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
 1 5 10 15
 Phe Glu Lys Leu
 20

<210> 385
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 385
 Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Ser Ile Ile Asn Phe Glu
 1 5 10 15
 Lys Leu

<210> 386
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 386
 Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Arg Gly Tyr Val Tyr
 1 5 10 15
 Gln Gly Leu

<210> 387
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 387
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val
 1 5 10 15
 Tyr Gln Gly Leu
 20

<210> 388
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 388

Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Arg Gly Tyr Val Tyr Gln
 1 5 10 15
 Gly Leu

<210> 389
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 389
 Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
 1 5 10

<210> 390
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 390
 Ser Leu Leu Met Trp Ile Thr Gln Val
 1 5

<210> 391
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 391
 Ser Val Tyr Asp Phe Phe Val Trp Leu
 1 5

<210> 392
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 392
 Gly Leu Tyr Asp Gly Met Glu His Leu
 1 5

<210> 393
 <211> 9
 <212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 393

Tyr Leu Glu Pro Gly Pro Val Thr Val
1 5

<210> 394

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 394

Lys Ala Ser Glu Lys Ile Phe Tyr Val
1 5

<210> 395

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 395

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val Gly Ser Gly Asn Leu Leu
1 5 10 15
Arg Leu Thr Gly Trp
20

<210> 396

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 396

Ser Leu Leu Met Trp Ile Thr Gln Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 397

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 397
 Ser Val Tyr Asp Phe Phe Val Trp Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 398
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 398
 Gly Leu Tyr Asp Gly Met Glu His Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 399
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 399
 Tyr Leu Glu Pro Gly Pro Val Thr Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 400
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 400
 Lys Ala Ser Glu Lys Ile Phe Tyr Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 401
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 401

Ala Leu Lys His Arg Ala Tyr Glu Leu
1 5

<210> 402

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 402

Ile Leu Lys Glu Pro Val His Gly Val
1 5

<210> 403

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 403

Ser Leu Phe Asn Thr Val Ala Thr Leu
1 5

<210> 404

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 404

Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val
1 5 10

<210> 405

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 405

Val Ile Tyr Gln Tyr Met Asp Asp Leu
1 5

<210> 406

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

 <400> 406
 Ser Leu Tyr Asn Thr Val Ala Thr Leu
 1 5

 <210> 407
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 407
 Ala Ile Ile Arg Ile Leu Gln Gln Leu
 1 5

 <210> 408
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 408
 Ala Phe His His Val Ala Arg Glu Leu
 1 5

 <210> 409
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 409
 Ala Leu Lys His Arg Ala Tyr Glu Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 410
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 410
 Ile Leu Lys Glu Pro Val His Gly Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15

Leu Thr Gly Trp
20

<210> 411
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 411
Ser Leu Phe Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 412
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 412
Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val Gly Ser Gly Asn Leu
1 5 10 15
Leu Arg Leu Thr Gly Trp
20

<210> 413
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 413
Val Ile Tyr Gln Tyr Met Asp Asp Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 414
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 414
Ser Leu Tyr Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 416
 Ala Phe His His Val Ala Arg Glu Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 417
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 417
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

 <210> 418
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 418
 Phe Tyr Gln Leu Ala Leu Tyr Trp
 1 5

 <210> 419
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 419
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5